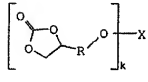
AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently amended): A process for modifying a substrate ~~which has~~ having one or more functional groups ~~which are~~ selected from hydroxyl groups and primary and secondary amino groups, ~~which comprises bringing~~ the process comprising contacting at least one substrate ~~is brought into contact~~ with a compound of [[the]] formula I or II under conditions such that the functional groups react, with opening of the 1,3-dioxolane ring or 1,3-diazaheptane ring and formation of a covalent bond, with the compound of [[the]] formula I or II



I

II

in which

R is C_1-C_{12}-alkylene;

if k is 1, X is CO-CH=CH_2, ~~CO-C(CH$_3$)=CH$_2$~~, CO-O-aryl, C_2-C_6-alkylene-SO_2-CH=CH_2 or CO-NH-R^1; and

R^1 is C_1-C_{30}-alkyl, C_1-C_{30}-haloalkyl, C_1-C_{30}-hydroxyalkyl, C_1-C_6-alkoxy-C_1-C_{30}-alkyl, C_1-C_6-alkylcarbonyloxy-C_1-C_{30}-alkyl, amino-C_1-C_{30}-alkyl, mono- or di(C_1-C_6-alkyl)amino-C_1-C_{30}-alkyl, ammonio-C_1-C_{30}-alkyl, polyoxyalkylene-C_1-C_{30}-alkyl, polysiloxanyl-C_1-C_{30}-alkyl, (meth)acryloyloxy-C_1-C_{30}-alkyl, sulfono-C_1-C_{30}-alkyl, phosphono-C_1-C_{30}-alkyl, di(C_1-C_6-alkyl)phosphono-C_1-C_{30}-alkyl, phosphonato-C_1-C_{30}-alkyl, di(C_1-C_6-alkyl)phosphonato-C_1-C_{30}-alkyl or a saccharide radical and,

if k is an integer of more than 1, X is (i) the radical of a polyamine to which the moiety in brackets in the formula is bonded via (CO)NH groups, or (ii) a polymeric skeleton to which the

moiety in brackets in the formula is bonded via (CO), NH-C_2-C_6-alkylene-O-(CO) or (CO)-O-C_2-C_6-alkylene-O(CO) groups.

2. (Currently amended): The process ~~as claimed in~~ of claim 1, wherein the substrate ~~being~~ is selected from the group consisting of biomolecules, polymers [[or]] and surfaces.

3. (Currently amended): The process ~~as claimed in~~ of claim 2, wherein the substrate [[being]] is a polymer.

4. (Currently amended): The process ~~as claimed in~~ of claim 3, wherein in the compound of the formula I or ~~II X being~~ II, X is CO-NH-R^1 and ~~at least some~~ one or more of the radicals R^1 [[being]] is ammonioalkyl.

5. (Currently amended): The process ~~as claimed in~~ of claim 4, wherein ~~some~~ at least one of the radicals R^1 ~~being radicals differing from~~ is not ammonioalkyl.

6. (Currently amended): The process ~~as claimed in~~ of claim 1, wherein the compound of the formula I or II ~~being brought into contact~~ is contacted with a first substrate under conditions such that a covalent bond forms between a first end of the compound of the formula I or II and the first substrate, [[and]] then the reaction product ~~being brought into contact~~ is contacted with a second substrate under conditions such that a covalent bond forms between a second end of the compound of the formula I or II and the second substrate.

7. (Currently amended): The process ~~as claimed in~~ of claim 6, wherein at least one of the first ~~and/or~~ or second substrate ~~being selected from~~ is selected from the group consisting of biomolecules, polymers [[or]] and surfaces.

8. (Currently amended): The process ~~as claimed in~~ of claim 7, wherein ~~the polymer being selected from~~ at least one polymer is selected from the group consisting of polyalkylenecamines, polyvinylamine, polyallylamine, polyethylenimine, chitosan, polyamide/epichlorohydrin resins, polyaminostyrene, peptides [[or]] and proteins.

9. (Currently amended): The process ~~as claimed in~~ of claim 1, wherein the compound of the

formula I ~~being selected from~~ is selected from the group consisting of

4-phenyloxycarbonyloxymethyl-2-oxo-1,3-dioxolane,

4-(4-phenyloxycarbonyloxy)butyl-2-oxo-1,3-dioxolane,

~~2-oxo-1,3-dioxolan-4-ylmethyl acrylate,~~

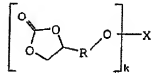
~~2-oxo-1,3-dioxolan-4-ylmethyl methacrylate,~~

4-(2-oxo-1,3-dioxolan-4-yl)butyl acrylate,

4-(2-oxo-1,3-dioxolan-4-yl)butyl methacrylate, and

4-(vinylsulfonylethoxy)butyl-2-oxo-1,3-dioxolane.

10. (Currently amended): A compound of [[the]] formula I or II



I

II

in which R is C_1-C_{12}-alkylene;

if k is 1, X is C_2-C_6-alkylene-SO_2-$CH=CH_2$ or CO-NH-R^1; and R^1 is C_1-C_{30}-alkyl, C_1-C_{30}-haloalkyl, C_1-C_{30}-hyroxyalkyl, C_1-C_6-alkoxy-C_1-C_{30}-alkyl, C_1-C_6-alkylcarbonyloxy-C_1-C_{30}-alkyl, amino-C_1-C_{30}-alkyl, mono- or di(C_1-C_6-alkyl)amino-C_1-C_{30}-alkyl, ammonio-C_1-C_{30}-alkyl, polyoxyalkylene-C_1-C_{30}-alkyl, polysiloxanyl-C_1-C_{30}-alkyl, sulfono-C_1-C_{30}-alkyl, phosphono-C_1-C_{30}-alkyl, di(C_1-C_6-alkyl)phosphono-C_1-C_{30}-alkyl, phosphonato-C_1-C_{30}-alkyl, di(C_1-C_6-alkyl)phosphonato-C_1-C_{30}-alkyl or a saccharide radical and,

if R is C_2-C_{12}-alkylene, X may also be CO-aryl, CO-CH=CH_2, ~~CO-C(CH$_3$)=CH$_2$~~ or (meth)acryloyloxy-C_1-C_{30}-alkyl-NH-CO,

or if k is an integer of more than 1, X is the radical of a polyamine to which the moiety in brackets in the formula is bonded via (CO)NH groups, wherein the polyamine is selected from the group consisting of dialkylenetriamines, polydimethylsiloxanes having aminoalkyl groups, polyvinylamine, polyallyamine, polyethylenimine, chitosan, polyamide/epichlorohydrin resins, polyaminostyrene, peptides and proteins.

11. (Currently amended): The compound ~~process as claimed in~~ of claim 10, in which R^1 is

$-(CH_2)_n-CH_3$,

$-(CH_2)_n-(CF_2)_m-CF_3$,

$-(CH_2)_n-[Si(CH_3)_2-O]_p-H$,

$-(CH_2)_n-Si(OSi(CH_3)_3)_3$,

$-(CH_2)_n-(O-CH_2-CHR^4)_p-OR^3$,

$-R^2-OH$,

$-R^2-NH_2$,

$-R^2-NR^3{}_3^+Y^-$,

$-R^2-SO_3H$,

$-R^2-PO_3H_2$,

$-R^2-OPO_3H_2$

or a saccharide radical,

~~R^2 being~~ wherein R^2 is C_1-C_{18}-alkylene, R^3 [[being]] is C_1-C_{18}-alkyl or benzyl and R^4

[[being]] is hydrogen or methyl,

Y [[being]] is one equivalent of an anion,

n and m independently ~~of one another, being an integer~~ are integers from 0 to 12; and

p [[being]] is an integer from 1 to 100.

12. (Currently amended): The compound ~~as claimed in~~ of claim 10, wherein the compound is selected from the group consisting of

4-(4-phenyloxycarbonyloxy)butyl-2-oxo-1,3-dioxolane,

~~2-oxo-1,3-dioxolan-4-ylmethyl acrylate,~~

~~2-oxo-1,3-dioxolan-4-ylmethyl methacrylate,~~

4-(2-oxo-1,3-dioxolan-4-yl)butyl acrylate,

4-(2-oxo-1,3-dioxolan-4-yl)butyl methacrylate, and

4-(vinylsulfonylethoxy)butyl-2-oxo-1,3-dioxolane.

13. (Currently amended): A modified polymer obtainable by the process ~~as claimed in~~ of claim 3.

14. Canceled

15. (Currently amended): A finish, dispersant, emulsifier, adhesion promoter, adhesive or contact adhesive for modifying surfaces or for immobilizing active substances ~~which comprises~~ comprising the polymer ~~as claimed in~~ of claim 13.